



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
 United States Patent and Trademark Office  
 Address: COMMISSIONER FOR PATENTS  
 P.O. Box 1450  
 Alexandria, Virginia 22313-1450  
 www.uspto.gov



Bib Data Sheet

CONFIRMATION NO. 8129

<b>SERIAL NUMBER</b> 10/615,004	<b>FILING OR 371(c) DATE</b> 07/08/2003 <b>RULE</b>	<b>CLASS</b> 375	<b>GROUP ART UNIT</b> 2611	<b>ATTORNEY DOCKET NO.</b> 51764/2
------------------------------------	---	---------------------	-------------------------------	---------------------------------------

**APPLICANTS**

Tamal Bose, Logan, UT;  
 Alan W. Shaw, Lewiston, UT;  
 Chirag RamGopal Sharma, Logan, UT;  
 Ratchaneekorn Thamvichai, St. Cloud, MN;

\*\* CONTINUING DATA \*\*\*\*\*

\*\* FOREIGN APPLICATIONS \*\*\*\*\*

IF REQUIRED, FOREIGN FILING LICENSE GRANTED \*\* SMALL ENTITY \*\*  
 \*\* 01/02/2004

Foreign Priority claimed <input type="checkbox"/> yes <input checked="" type="checkbox"/> no	STATE OR COUNTRY UT	SHEETS DRAWING 3	TOTAL CLAIMS 33	INDEPENDENT CLAIMS 4
35 USC 119 (a-d) conditions met <input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> Met after Allowance				
Verified and Acknowledged Examiner's Signature <i>[Signature]</i> Initials <i>[Initials]</i>				

**ADDRESS**

John R. Thompson  
 STOEL RIVES LLP  
 One Utah Center, Suite 1100  
 201 South Main Street  
 Salt Lake City, UT84111

**TITLE**

Infinite impulse response multiplierless digital filter architecture ✓

<b>FILING FEE RECEIVED</b> 599	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:	<input type="checkbox"/> All Fees
		<input type="checkbox"/> 1.16 Fees ( Filing )
		<input type="checkbox"/> 1.17 Fees ( Processing Ext. of time )
		<input type="checkbox"/> 1.18 Fees ( Issue )
		<input type="checkbox"/> Other _____
		<input type="checkbox"/> Credit